AMENDMENTS TO THE CLAIMS

1. (Currently amended) A process for removal of SO_2 in off-gases having a temperature of ~~30-150° C~~ 50-120° C and containing ~~0.001-1~~ 0.001-0.1 vol % SO_2, comprising the steps of:

oxidizing the SO_2 to H_2SO_4 without the use of an absorption tower by spraying an aqueous solution of H_2O_2 into the off-gas upstream of an aerosol filter to form H_2SO_4 by reaction in the gas phase between SO_2 and H_2O_2; and

removing the produced sulphuric acid from the off-gas in the aerosol filter.

2. (Original) A process as in claim 1, in which the off-gas is cooled by evaporation of the water comprised in the solution being sprayed into the off-gas upstream of the filter.

3. (Previously presented) A process as in claim 1, in which a wet electrostatic separator is used in place of an aerosol filter.

4. (Canceled)